

DESCRIPTIVE ABSTRACT

The object of the invention is a process for the qualitative and quantitative detection of damage in DNA, 5 comprising the following different steps:

- preparation of DNA,
- damaging treatment of this DNA, and
- securement of this damaged DNA to a sensitized solid support, or
- preparation of DNA,
- securement of this undamaged DNA on a sensitized solid support, and
- damaging treatment of the DNA, or
- treatment of cells,
- lysis and capture of cellular DNA,

characterized in that it consists in:

- causing to act on this damaged DNA a composition comprising at least one cellular extract or a purified protein having at least one activity for recognizing and/or repairing damage, and
- detecting on the damaged DNA, directly or indirectly, the presence of recognition and/or repair proteins of the damage produced,

- all the steps being separated by at least one washing step.

The invention also relates to the materials for practicing this process.